

THE

JANUARY
1950

Gleaner

NATIONAL AGRICULTURAL COLLEGE



Football Section--see pages 9 to 12

CLYMER'S
DEPT. STORE
YOUR BOND OF SATISFACTION

**BUCKS COUNTY'S
LARGEST STORE**

The National Agricultural
College is one of its patrons

YOUR PATRONAGE SOLICITED

Doylestown, Pa.
PHONE 211

Metro Greenhouses Are Superior!

For over 75 years Metropolitan
greenhouses have been famous for
their ruggedness, durability and
dependability.

Make Metro your standard of com-
parison!

**METROPOLITAN
GREENHOUSE MFG. CORP.**
1867 Flushing Ave., Brooklyn, N. Y.

I. G. ROSENBERGER
**John Deere Farming
Implements**

Papee Cutters and Hammer Mills
Delaval Milkers — Dexter Washers
Fertilizers and Grass Seed
Dekalb Hybrid Corn
Farm Freezers
PHONE: PERKASIE 2124
SILVERDALE, PA.

**QUAKERTOWN
WHOLESALE
CONFECTIONERY
COMPANY**

15 South Second Street
QUAKERTOWN, PA.

"All Work Done in Our Own Plant"

BITZER

Dry Cleaning and
Dye Works

Plant Store
Phone 4125 Phone 4248

WEISBARD'S DRUG STORE

Prescription Drug Store
Since 1874

Main and State Streets
DOYLESTOWN, PA.

Corsages — Cut Flowers

**SANDY RIDGE
FLOWER SHOP**

TELEPHONE 4169
Doylestown, Pa.

CORTRIGHT COAL CO.
Bituminous Coal

12 S. Twelfth St., Philadelphia 7, Pa.
Walnut 2550

The Place To Go for Your
Haircuts and Shaves
H. C. NELSON
Tonsorialist

17 S. Main St. Doylestown, Pa.

J. J. CONROY INC.

Ford Dealer

SINCE 1919

Phone 274

West State Street

Doylestown, Pennsylvania

SITNEK FUEL COMPANY
Coal and Coke

SUITE 2100
Sixteen Sixteen Walnut Street
PHILADELPHIA, PA.

W B & E

|||||
QUALITY
SINCE
1885

|||||

Williams Brown & Earle, Inc.

918 CHESTNUT STREET

PHILADELPHIA 7, PA.

Leaders in Scientific Instruments

Photographic Materials
Engineering & Drafting Supplies
Blue Prints & Photostats
Laboratory Equipment & Supplies
Optical Equipment
Motion Picture Cameras & Projectors

The GLEANER

NATIONAL AGRICULTURAL COLLEGE
Farm School, Bucks County, Pennsylvania

VOL. LIV **JANUARY, 1950** No. 3

Editor-in-Chief . . . Alex Greenblatt Managing Editor . . Herbert Rosenoff

ASSOCIATE EDITORS

Sol Resnick Morris Lowenthal Erwin Goldstein Carl F. Leutner

DEPARTMENTAL EDITORS

Dave Blumenfield Jack Pernatin Nathan Sandler Sam Silver
Melvin Silverman Ernie Cohen William Clancey Jack Greenberg

BUSINESS BOARD

Harold Haffel Saul Goldstein Melvin Kreisler Sheldon Koltoff
Stan Barber Frank Brown Bob Pearson

GENERAL STAFF

Donald Selak Morty Ballin Dave Miller Jeff Steinman George Bleibtreu

CONTRIBUTORS

Stan Schwartz Morton Weingarten Douglas VanWinkle John Toor
Gene Prevost William Slemmer Charles Sonneborn Dan Dilley
Eugene Messa Norman Auslander Joe Chernicoff Robert Reynolds
William Neff Sandy Aklufi Donald Peters Edwin Martin

FACULTY ADVISORS

Mr. Norman Finkler Mr. Donald Meyer
Mr. Samuel B. Samuels

... CONTENTS ...

NAC Musical Organizations Active	page 4
Junior Prom is Success	page 5
By Morris Lowenthal '51	
Meeting of B. C. P. P. Held at College	page 5
By Erwin Goldstein '51	
Cornucopia Staffs at Work	page 5
By Dave Blumenfield '50	
Who's Who on the Faculty	page 6
By Jack Pernatin '50	
Horticulture Seniors Attend Atlantic City Convention	page 7
Dairy Society of NAC Visits Beltsville	page 8
By Stan Schwartz '50	
SPECIAL FOOTBALL SECTION	pages 9-12
Highlights of the Football Season	
Football Player Roster	
Sports Scene	
Look to the Future	
Individual Scoring	
Season Record	
All-Opponent Team Picked	
Chaos at NAC	page 12
By John Toor '52	
Alumni News	page 16

The Gleaner is published throughout the school year by the student body of the National Agricultural College. Entered as second class matter at the Post Office at Farm School, Pa. Subscription rate—\$1.50 per year.

Have We Succeeded?

The following item appeared in the December 10th issue of the *Doylestown Intelligencer*—"We noticed . . . Localities remarking that whenever the boys at the National Agricultural College are asked to contribute to or to participate in any town activity, they always come through with the works." This item made all of us feel proud. We thank you, Doylestown.

Doylestown definitely is not a college town and we must accept that fact. We therefore cannot act like typical college students when we are in town. We believe we have succeeded in that respect. On some nights, at least half of the student body is in town and yet you'd never know it. Behavior and general deportment are like those of any other normal people.

A great deal of credit for our actions should go to our Student Council and Varsity Club whose sincere efforts toward better relations between Doylestown and NAC are beginning to show some light. It's taken four years before Doylestown has finally accepted the NAC student for what he is, instead of considering him as another typical college student who makes a spectacle of himself when let loose in the neighboring town.

If people in this community say that students lack spirit, we say they are wrong. If spirit means getting drunk, painting the town green and gold, being boisterous, and in general a nuisance, we say we don't want it.

We hope that the time will soon come when the community of Doylestown will take a greater interest in this college. We hope that we can also make the citizens of Doylestown feel proud of the only college in Bucks County and the only private four-year agricultural college in the country.

ON THE COVER

Anthony Grifo, Ralph Smith and Frank Scheirer holding three of the NAC horses that were shown at the Pennsylvania Farm Show last week. Photo by Van Winkle.

N A C MUSICAL ORGANIZATIONS ACTIVE

Band and Glee Club in New Uniforms

The N A C Glee Club and Band presented a variety of musical programs through the media of the radio, the Doylestown Christmas Parade and the Holiday Festival during the month of December.

On December 8, the Glee Club presented a musical program over radio station WBUX from 4:00-4:30 p.m. singing a number of spirituals and a variety of Christmas carols.

The following evening the Doylestown Christmas Parade was held. The N A C band, dressed in newly acquired green and gold military uniforms, presented a colorful sight to the crowds lining the streets. The band put on a good show in representing the college at this affair. For its work, the band was given a cash award.

The final touch to this musical month was highlighted by the annual N A C Holiday Festival on December 14 in the college gymnasium. The program included selections by the Glee Club, the Band, talented students, members of the faculty, and audience participation.

PROGRAM

- Easy to LovePotter
 Erie Canalarr. by Scott
 Glee Club
- There's No One But YouJohnson
 Martin Lynn, Tenor
 Carl Lynn, Tenor
 Jack Kilpatrick, Baritone
- Set Down, Servantarr. by Shaw
 Glee Club
 Donald Christian, Tenor
 Jack Kilpatrick, Baritone
- Christmas MelodiesHolmes
 N. A. C. Band
- You'll Never Walk Alonearr. by Ringwald
 Glee Club
- Some Enchanted EveningRodgers
 Lucky Old SunMercer
 Herman Fiesser, Tenor
- Behold That Stararr. by Cunkle
 Glee Club
- Andante from OrpheoVon Gluck
 Gavotte from IphigeniaVon Gluck
 Dr. and Mrs. Reinthaler
- Jingle Bellsarr. by Charles
 Glee Club
- Combined Glee Club and Audience
 Carol Singing
- The First NoelWhite Christmas
 Silent NightO Come All Ye Faithful
 Combined Glee Club and Audience
 Alma Mater

Following the performance refreshments were served in the form of apple cider, cookies, pretzels, and candy.

For this occasion, the Glee Club appeared for the first time in their new



The Glee Club together with Mrs. Richman and Mrs. Shelley at the Holiday Festival.
 Photo by Van Winkle.

formal outfits of tuxedos; Mrs. Richman, conductor, and Mrs. Shelley, accompanist, were very attractively dressed in evening gowns. The formal attire, with a background of simple, but very effective Christmas decorations, provided a very attractive setting for the performance.

The audience turnout for the Festival greatly outnumbered any of the previous performances. In addition to the student body, administration, faculty, and staff, there were guests from Doylestown and several members of the College Board of Trustees.

(Continued on page 13)

LETTERS ABROAD

Would you like to exchange letters (in English) with young farmers in Japan or Germany or Holland or the Scandinavian countries?

Letters from all these countries are waiting to be answered by men and women in America. The writers want to exchange ideas, compare notes, trade farm "know-how." They are not looking for material help but genuinely seek friendship and the exchange of information.

Any young people from this country who would like to take part in this international undertaking are welcome to do so. There is no cost beyond a 3¢

stamped and self-addressed envelope. Simply write, giving your age, interests and occupation to:

Letters Abroad

World Affairs Council of Philadelphia
 1411 Walnut Street
 Philadelphia 2, Pennsylvania

A letter from a young farmer in a foreign land will be sent to you. Thereafter, you write directly to him. Please do not undertake this project unless you sincerely mean to continue the relationship for we do not want to disappoint those who are turning to us for friendship.

Junior Prom is Success

By MORRIS LOWENTHAL '51

Rain, sleet and hail did not deter the determined students, faculty members and friends who attended the Junior Prom on Saturday, December 10, in the beautiful Crystal Ballroom of the Broadwood Hotel in Philadelphia.

Over one hundred couples attended this formal affair, which is reported to be one of the most successful in the history of the National Agricultural College. The crowd started to arrive at about 9 p.m. and was greeted by a reception line consisting of Junior Class President James Coyle and his wife, Class Advisor Dr. Elmer Reintaler and Mrs. Reintaler, and Dr. and Mrs. Paul Bowen.

Other faculty members present were Dean Donald Meyer and Mr. Peter Glick. The Junior Class was also honored by the presence of Capt. Herbert Sobel, former professor at N A C and Jerry Wichner, announcer for WBUX, the local radio station.

Excellent dance music was supplied by the Haverfordians, a Philadelphia ensemble. Dedication numbers played were: "Some Enchanted Evening," for the Senior Class, "Because," for the Junior Class, "Stardust," for the Sophomores, and "Again," for the Freshmen.

Those present at the dance were honored by the formal engagement announcement of Bill Judd to Miss Janet Reinert.

Prepare

NOW

for

"A" DAY

May 6th

Meeting of B.C.P.P. Held at College

By ERWIN GOLDSTEIN '51

On November 30th the Bucks County Poultry Producers held their regular meeting in Segal Hall. Present at the meeting were two of the important figures in the Poultry world: Leslie Hubbard, President of the National Poultry Producers Federation, and Homer Huntington, general manager of the Poultry and Egg National Board.

Mr. Huntington spoke to the assembly about the function of the Poultry and Egg National Board. He stated that in the last 25 years, science has tremendously increased the production of poultry products. The P. E. N. B. was organized to increase consumption of these products, thus avoiding a slump in poultry earnings through over-production. The method it used was an intensive advertising campaign.

Mr. Huntington outlined the campaign as follows:

1. Extending grants to colleges for research in preparation of poultry products.

2. Advertising in conjunction with other industries. Examples of this are the campaigns underway to sell wine and poultry, cranberry sauce and poultry, and tuna fish and eggs.

3. The organization of the Good Egg Club. This is an honorary organization of celebrities who have endorsed or encouraged the consumption of poultry products. Among its members are Harry S. Truman, Claudette Colbert, Fred MacMurray, Eddie Cantor, the Ambassador to Luxembourg, and the governors of twenty states.

4. New recipes and ideas on poultry products are sent to food editors of magazines and newspapers.

5. Advice is given to editors of cook books.

6. Various agencies are kept informed of new developments in the field of poultry production, preparation and serving. Among these are schools, hotels, restaurants, radio stations, libraries and hospitals.

CORNUCOPIA STAFFS AT WORK

By DAVE BLUMENFIELD '50

CORNUCOPIA 1950, the first college yearbook of the first graduating class of the National Agricultural College, will soon hit the presses. In a personal interview with Editor William Clancey, I learned some of the problems the staff has been facing.

The foreword must include not only our four years of college life with a skillful blending of the transitional period between junior and senior college days but also the past history of the school.

The problem of the name of the yearbook was solved by Charles Wollins and Morty Ballin. The staff feels that CORNUCOPIA, a name tracing back to Greek mythology, is appropriate because it represents the proverbial horn of plenty resulting from the labors of the preharvest season, as the social and educational experience gained in our four years of college life should represent the fruits of our labor.

I can say little about the theme at this time, but I was assured by Editor Clancey that their hillbilly theme is original as far as they know.

The members of the 1950 Yearbook Staff who certainly deserve a lot of credit are: Editor, William Clancey; Associate Editor, Alex Greenblatt; Business Manager, Charles Martin; Art Editor, Morty Ballin; Photography Editor, James Sheaffer; and Sports Editor, Walter Long.

The wide-awake juniors have already formed their staff, headed by Editor Patrick Kelly. Editor Kelly told me that the staff is attending the senior meetings in order to be better prepared for their task. These are the men you juniors should support next year: Editor, Patrick Kelly; Associate Editor, Morris Lowenthal; Business Manager, Victor Pessano; Art Editor, Richard Horne; Photography Editor, Paul Stein; and Sports Editor, Anthony Grifo.

WHO'S WHO ON THE FACULTY

Professor Herman G. Fiesser and Abraham Rellis

By JACK PERNATIN '50

PROFESSOR HERMAN G. FIESSER

If experience is a criteria of knowledge then Professor Herman Fiesser, Assistant Professor of Ornamental Horticulture, is a veritable cornucopia of horticultural information.

Mr. Fiesser was born in the province of Baden-Baden, Germany, where he spent a good deal of his youth and a small part of his manhood.

After graduating from the gymnasium, which is comparable to our American high schools—he enrolled at Gartenbauschule, Germany. At this agricultural school he majored in what was later to be his life work, ornamental horticulture. At Gartenbauschule he received much valuable theoretical as well as practical instruction in this fascinating field. After graduation young Herman gained still more valuable practical experience, first by working at the Palm Gardens, Frankfurt and later at the world famous Pfitzer Nurseries, in Stuttgart. He worked at Pfitzer's for a while, and then joined the business firm of Ernest Benary of Erfurt, Germany as a seedman.

In 1923, at the age of twenty-six, Herman Fiesser emigrated to the United States. At first he stayed in New York City, where he obtained employment with Max Schling, seedman, but later he joined the firm of Fiesser and Sons, North Bergen, New Jersey. It was here that he received much valuable experience in greenhouse operation.

He left the firm of Fiesser and Sons to accept the position of manager of nurseries and campus at what was then the National Farm School. He still remains in this capacity but has since accepted the additional task of teaching many courses in landscaping and nursery management.

In 1928 Mr. Fiesser married. Mrs. Fiesser is well known to all the students on campus as our Postmistress. The Fiessers have two sons: Fritz, 15 and Bert, 19.

Although the working staff here at the college was considerably depleted during the war, Mr. Fiesser made great strides in the development of the nursery, until today we have a large propaga-



Professor Herman G. Fiesser and Abraham Rellis. Photos by Van Winkle and Weingorten.

tion house, a well stocked greenhouse, and a nursery containing three acres of choice nursery stock. Practically all the stock used in the nursery has been propagated here on the campus under the personal direction of Professor Fiesser.

To Mr. Fiesser the nursery business is not only a profession but a hobby and a way of life.

MR. ABRAHAM RELIS

Manager of the Greenhouses and instructor in Floriculture, Mr. Rellis plays an important part in the physical operation of the National Agricultural College.

Born in the small village of Verna, Russia, he emigrated to the United States in the company of his parents at the age of two. After landing on American Shores, the Rellis family settled in West Virginia, but later moved to Erie, Pennsylvania.

It was while the family lived in Erie, and after he graduated from high school that young Abraham came to study at what is now the National Agricultural College. He studied hard at all subjects but soon found that he had a love as well as a "green thumb" for raising flowers.

When the time came for him to

choose his major he naturally chose greenhouse management. He has since devoted his life to this vocation. While at Farm School he was editor of the Gleaner and participated in intramural sports.

In 1930 he graduated and obtained employment with various growers in the Doylestown area.

The year 1935 was a momentous one in the life of Mr. Rellis, for it was in that year that he started the operation of his own greenhouse in a suburban area of Philadelphia, specializing among other things, in the growing of English Ivy. But as Mr. Rellis told our reporter, "This new enterprise brought up one big problem. So many classmates and fellow alumni stopped in to say hello that I could get very little work done."

During the war Mr. Rellis gave up his greenhouse and returned to his alma mater to take charge of—of all things—a canning project. It was a war effort program set up to utilize and preserve all edible farm produce. After the successful completion of the canning project our instructor of Floriculture took charge of the management of the college greenhouses, where he has since served.

(Continued on page 12)

Horticulture Seniors Attend Atlantic City Convention

The seniors in horticulture, who are always in search of the latest developments in their field, attended the New Jersey State Horticultural Society Convention in Atlantic City on December 7.

This was the last of a three-day annual convention held in the city by the ocean, and was designated as Tomato and Peach Day.

The group split up, half going to one session and the remainder going to the other, since both were held at the same time but in different hotels.

The group going to the Peach Conference heard the latest developments in connection with the cooling of peaches while in transit. Professor H. A. Cardinell of the Michigan State College of Agriculture discussed the experiments that Michigan State had carried out with the new method known as stericooling.

In the same morning session the group heard Mr. Frank Street from Henderson, Kentucky, a successful peach grower who told of his experiences in the peach growing industry. The most revolutionary idea he brought forth concerned the pruning of Elberta peach trees. In this section we prune peach trees heavily from the time of planting until they begin bearing fruit, as a means of training our trees. Mr. Street, on the other hand, does no pruning at all on his Elbertas until their sixth year of growth. In this manner he got good yields after the third year, whereas our trees don't bear very much until the fifth or sixth years. Although yields were high, he didn't get uniform and high quality fruit, with the size being small.

The next recommendation that he made was in reference to the use of the new spray known as Parathion which he recommended very highly as a good control for various peach insects. Mr. Street warned that although it was very effective it was also very dangerous to the person operating the spraying equipment.

In the afternoon Peach Conference, the new spray schedules for the coming year were released by Professor Arthur J. Farley of Rutgers University. The major changes over the 1949 schedule was the fact that Parathion had been included in the new spray program.

Professor Farley also warned the listeners of its great danger to human beings.

The group that attended the Tomato Conference was treated to a very interesting slide program in the morning by Professor J. W. Carncross, also of Rutgers University, who discussed the surveys taken on costs, practices, and returns from tomatoes for processing. In his talk he said that the New Jersey

tomato yields for the year 1948 was 6.4 tons. The survey showed that the receipts for that year, mostly received through local canneries, ranged from a low of under \$24 a ton to a high of over \$38 per ton with the average being between \$30 and \$32. The average cost per acre of tomatoes ranged between \$200-\$350. Costs for each ton were \$20-\$32. It was also shown that the

(Continued on page 13)

In Memory of

REV. GEORGE M. WHITENACK, JR.

a former English instructor at the college, who died suddenly on December 9, 1949, we reprint one of his poems, first published in the January 1948 GLEANER:

LOW GREENING HILLS

The low, greening hills run down to the sea
Where foam-crested billows are beckoning me.
The sound of the breakers, the swish on the shore
Are voicing the summons, they call evermore.
They call in the twilight; when, sun, sinking low,
Leaves East in the Shadows and West all aglow;
When high, surging seas and green hills coming nigh
Are wrought into one and blend in the sky.

Then, God of the world and Father of souls
Greet me in the shadows as darkness enfolds,
Greet me in the gloaming when day is full spent
And all my desire on Thy love is intent,
When wail of the waters, lament of the land
Combine to appall me and reason withstand.
Oh God, hear my cry on these hills by the sea
When nought is above save Heaven's canopy.

Meet me, Father-God, in this glorious place
And grant me to look without harm in Thy face,
When twilight's soft ray has grown dim in the West,
Speak peace to my soul and vouchsafe me Thy rest.
Then, calls from the breakers, appeals from the shore,
Unheard, will pass on while my God I adore.
Oh come Lord and greet, come and meet Thou with me
Where low, greening hills run down to the sea.

Dear Friends:

The children and I appreciate and thank the students at the school for their kindness in sending flowers for my husband.

He often made the statement that he enjoyed the work at the school more than anything he ever did and after leaving always enjoyed hearing from the boys.

Sincerely,

Margarette Whitenack and family

Dairy Society of NAC Visits Beltsville

Wonders in Scientific Research Observed by Group

By STAN SCHWARTZ '50

Soups to nuts: no single phrase more aptly describes the Agricultural Research Center at Beltsville, Maryland. The station, its records and its employees are a veritable mine of knowledge and information.

2000 People Employed

Approximately 2000 persons are employed by the Agricultural Research Administration at Beltsville. Scientific specialists include—to list them alphabetically—agronomists, animal husbandmen, apiculturists, architects, bacteriologists, biochemists, biologists, botanists, chemists, engineers, entomologists, geneticists, grain technologists, helminthologists, home economists, horticulturists, mycologists, nematologists, olericulturists, nutritionists, parasitologists, pathologists, silviculturists, soil conservationists, statisticians, veterinarians, and zoologists.

One might conservatively estimate that it would require about a month of continual study to familiarize himself with the various experiments now in progress at the station. Fortunately, that is not necessary. The USDA main-

tains a vast extension service which serves as its educational arm. In addition to the extension service, mountains of literature are printed annually and are available upon request or payment of a nominal fee. Few textbooks are as completely informative as the Agricultural Yearbooks, which are available to the public merely by writing to congressmen.

Doiry Society Visits Beltsville

Recently, the Dairy Society of NAC sponsored a trip to Beltsville. Twenty students, accompanied by Professor Brown, were able to study several of the station's operations first hand. The unanimous opinion of all concerned was that they not only had gained a great deal of knowledge, but also had gained a greater respect for the research field as a whole, and the USDA.

Only three of the departments were visited, with most of the attention focused on the dairy department. The other two departments visited were swine and poultry.

Our host at the Dairy Department was Mr. C. M. Jones, Northeastern Ex-

tension Dairyman. Mr. Jones met us at the administration building promptly at 9:00 A.M. and conducted us to a lecture room where he proceeded to outline the experiments being carried on in the field of practical dairying.

The station maintains 500 dairy animals of all ages and 100 bulls. Of these, there are two purebred herds consisting of Holsteins and Jerseys. The remainder of the animals are cross-breeds, purebred Red Danes and a few Indian Sindi cattle. Approximately 150 bulls are now on lease throughout the country in the process of being proved.

Dairy Breeding Program

He described the purebred breeding program and revealed amazing figures of increased production resulting from the use of proved sires. The herds of Holsteins and Jerseys were established in 1918 and 1919 respectively. The average butterfat production of the cows in the foundation Holstein herd was 678 pounds a year; the average of all the cows in the herd on July 1, 1949 was 892 pounds, an increase of 214 pounds. Corresponding figures for the Jerseys are 622 and 829, an increase of 207 pounds. These figures are based on each cow's highest official record regardless of age, when milked three times a day for 365 days, and all records are calculated to mature equivalent. Even more startling is the fact that no animals are culled from the herd in order that complete information may be obtained. Proved sires have been used exclusively in both herds, and outbred, linebred, and inbred animals have been produced.

A cross-breeding experiment was begun in 1939 in order to obtain as much useful information as possible on the subject. Proven sires of the Holstein, Jersey, and Red Dane breeds are being crossed with females of these same three breeds. Higher production and a remarkable persistency of production has characterized these animals. Work also progressed to the point where Brown Swiss and Ayrshire blood is now being infused into the crosses.

(Continued on page 14)



Experimental Dairy Farm of U. S. D. A. Research Center, Beltsville, Maryland. Photo courtesy U. S. D. A.

FOOTBALL SECTION

HIGHLIGHTS OF THE FOOTBALL SEASON

By DAVID MILLER '50

On September 30, the night before the game with Montclair State Teachers, we held our first pep rally. A fine turnout of students, faculty members, alumni, administration members and guests were present. Speeches were made by Messrs. Sam Rudley, Sam Golden, and Cecil Toor of the Alumni; Jesse Elson and Henry Schmieder of

the faculty; Capt. Phil Molter; Ass't Coaches Pete Glick, Tom Miller and Head Coach Hugo Bezdek and President James Work. Songs and cheers were sung and yelled with enthusiastic response by the audience. Bill Orapchuck, as master of ceremonies did a very able job. The rally was climaxed by a giant outdoor fire from the top of

which a Montclair effigy was hung. The next day we beat Montclair 12-7.

We may not have won the game we played down at Potomac State, but the boys all agreed it was a wonderful trip, particularly those meals they had at the Penn Harris Hotel in Harrisburg.

(Continued on next page)

FOOTBALL PLAYER ROSTER

No.	Name	Pos.	Age	Hgt.	Wt.	Hometown	Yr.
20	Dick Clark	C	20	5'8"	165	Roxborough, Pa.	SR
22	Don Peters	C	18	5'8"	170	Reading, Pa.	FR
24	Wally Heitsmith	E	20	6'	170	Ridgefield Park, N. J.	SO
25	Ed Nieznay	B	19	5'6"	150	Pennsburg, Pa.	FR
26	Carl Lynn	B	21	5'10"	155	Bethlehem, Pa.	SO
27	Bill Branigan	C	21	6'1"	190	Glen Rock, N. J.	FR
28	Joe Fulcoly	B	22	5'8"	170	Fort Washington, Pa.	SR
31	Dan Franchetti	B	18	5'9"	170	Hammonton, N. J.	FR
33	Phil Serkerchok	E	19	6'2"	170	Swoyerville, Pa.	FR
34	Stan Brason	E	21	6'1"	170	Philadelphia, Pa.	FR
37	Eugene Messa	E	19	6'	150	Lansdale, Pa.	FR
39	William Vogel	E	19	5'10"	175	Quakertown, Pa.	FR
50	Bob Holland	G	20	6'2"	195	Ridgefield Park, N. J.	SO
51	Walt Riggins	B	23	5'8"	165	Prospect Park, Pa.	SR
52	Walt Weinstein	G	21	5'8"	165	New York, New York	SR
53	Phil Molter (Capt.)	G	23	5'9"	170	Danville, Pa.	SR
54	Walt Marks	B	18	5'7"	150	Bridgeton, N. J.	FR
57	Owen Evans	E	20	6'1"	175	Gwynedd Valley, Pa.	FR
59	Ray Blew	E	19	5'9"	165	Bridgeton, N. J.	FR
60	Bernie Gallagher	T	19	5'11"	185	Margate City, N. J.	FR
61	Ed Zajaczkowski	B	18	5'10"	170	Nanticoke, Pa.	FR
62	James Lipari	C	19	6'	160	Easton, Pa.	FR
66	Charles Sonneborn	B	18	5'8"	160	Washington, D. C.	FR
68	Charles Raskin	G	20	5'6"	175	Mt. Vernon, N. Y.	SR
70	Robert Gillum	E	20	6'1"	160	Wynnewood, Pa.	FR
71	Ivar Holmburg	T	21	5'10"	220	Kane, Pa.	FR
73	Hank Kuehn	E	20	6'2"	185	Great Neck, L. I.	JR
77	Lou Serridge	E	21	5'7"	145	Flemington, N. J.	SR
79	Orion Cromwell	E	17	6'1"	175	Erwinna, Pa.	FR
81	Gerry Marini	T	19	5'10"	215	Brooklyn, N. Y.	SO
82	Saul Goldfarb	T	19	5'11"	210	Brooklyn, N. Y.	JR
83	John Guisri	G	21	5'8"	185	Nanticoke, Pa.	FR
84	Mike Scheier	B	21	6'	190	Flemington, N. J.	SR
85	Ed Brophy	B	21	5'8"	175	Ardmore, Pa.	SO
86	Pete Kerkhoff	E	20	5'10"	180	Brooklyn, N. Y.	SO
87	Paul Chechele	T	17	5'8"	190	West Pitston, Pa.	FR
89	Carl Dahlstrom	G	18	6'2"	205	Philadelphia, Pa.	FR
93	Ted Roderique	B	19	6'	185	Lynn, Mass.	FR
94	Paul Stein	T	19	6'	230	Beverly, Mass.	JR
95	John Holzheimer	T	20	6'	225	New York, N. Y.	JR

HIGHLIGHTS

(Continued from page 9)

Raid on Glassboro

On the night of November 2, thirty-one Aggies decided to pay a friendly visit to the Campus of Glassboro State Teachers College. Travelling in five cars and a truck carrying assorted miscellaneous trivia, they parked in front of a house in Glassboro and departed on their assigned tasks.

At the moment and unknown to the Aggies, a woman was calling the police department telling of the unfamiliar collection of cars in front of her door. The Aggies carried out their missions successfully, applying whitewash to walls and buildings, placing funeral wreaths on the dean's door, stringing cut paper streamers on the campus, hanging a Glassboro dummy and throwing tomatoes of uncertain texture. An attempt to place chickens in the girls' dormitory was unsuccessful. The nightwatchman, coming to the scene, saw some of the men and fired a few shots (probably not at them). He apprehended three of them at the same time the police arrived. The three led the nightwatchman and the police to the cars where they rounded up and took the names of sixteen Aggies who were then made to do some cleaning up. A friendly spirit prevailed and the men asked the officers if they would like some coffee. On the way to the diner, the Aggies picked up the other students who didn't come back to the cars. In the diner, the policemen told the Aggies that they should have notified them of their intentions before they came. It was after four in the morning when the boys started back to school. The next day at 4:00 p.m. a special assembly was called in which President Work informed the student body that the President of Glassboro had estimated that damage in the amount of fifty dollars had been inflicted. President

SPORTS SCENE

By ERNIE COHEN '50

N. A. C. had a losing football season but look—the world hasn't even come to an end. Maybe we should take the '49 grid season as an omen pointing toward a better balanced athletic program with no sport taking a back seat. There should be equal support for basketball, baseball, and football.

Well, what happened to last year's football team? Nothing really terrible. A completely new system was installed, the T formation. What happened to our team has happened to many others which didn't find the change an easy one. T plays are precision timed: the hole is there for only a moment; the backs must be there then or never. Too many times this season the hole wasn't there or the backs got to the opening a step too late, resulting in a loss of yardage.

The T formation, however, is not just a one season proposition. The seed has been planted; it was a little slow to germinate, but has finally started.

Work informed the men who had taken part in the affair that if the money was not in by 6:00 p.m. they would be expelled. With the aid of the entire student body, the money was delivered to President Work and the incident was officially closed. On the following Saturday, a cold, raw day we were defeated by Glassboro 19-6.

The trip to Wilkes marked the first time the band was resplendent in their new uniforms. Under the able leadership and direction of Marty Lynn they performed on the field and in the stands with precision and orderliness. After the game many of the spectators commended us on our fine band. Almost everyone agreed that at Wilkes the band performed more admirably than the team.

"Too little, too late" that was the theme of this past season. How many times have we heard "a few minutes more and we'd have won that game?" The fellows who said that were right. We probably could have taken several of those games. Our team was a stronger finisher, but we lost games because we were always off to a very weak start. No team can play Drop the Football and Penalty Pal's till the last quarter and then finally come out fighting and expect to win.

As went the season, so came the end, the strong finish. After the team lost five straight we finally had a team which came out and played ball from the word go. Even in this last contest, however, Lady Luck, who had been dealing from the bottom all season, was true to form. The team was dogged by fumbles and penalties, but it fought all the way and won the game. The team had finally found itself.

Big Pep Rally

On the night of November 18, we held our last pep rally of the season. We had a fine turnout that responded to songs and cheers. Speeches were made by Ass't. Coaches Pete Glick and Tom Miller and Head Coach Hugo Bezdek. Each of the eight seniors: Mike Scheier, Lou Serridge, Walt Riggins, Joe Fulcoy, Chuck Raskin, Dick Clark, Walt Weinstein and Capt. Phil Molter gave a short speech. The spirit of Walt Weinstein, who gave everything he had all the time despite the fact that he was a substitute, was commended by Coach Glick who said that if everyone on the team had Walt's spirit we would have had a more successful season. President

(Continued on page 16)

Squirrel...



LOOK TO THE FUTURE

By SAUL GOLDSTEIN '50

To all of you dyed-in-the-wool, loyal Aggie fans who have been using your crying towels to excess this past football season, I say "put your towels away. Take hold and look to the future."

There is no doubt that at times a crying towel was necessary because of the Aggies record of 3 wins and 5 losses, one of the poorest seasons N. A. C. has had in fifty years. However, before we start to tear anyone apart, let us look over the past season and see just what has taken place.

Except for Pete Glick, backfield coach, who was with the Aggies last year, we have had an entirely new coaching staff. It was the extremely good fortune of the Aggies to have secured as head coach, Hugo Bezdek, a man whose name is greatly honored throughout the world of football. As assistant coach we had Tom Miller, in charge of the linemen. Mr. Miller, former Philadelphia Eagles player, coached at Wilkes College last year.

Fall Practice

Invitations were sent out to 41 men, and on September 1, 1949 the first football practice was held. Of the 41 men reporting, 19 were former lettermen. Among them were eight seniors playing their last season at NAC. They were: hard-hitting fullback Mike Scheier, who holds the modern NAC scoring record, Capt. Phil Molter, Walter Riggins, Dick Clark, Charles Raskin, Lou Serridge, Walt Weinstein and Joe Fulcoly. Around these men and a number of promising sophomore and freshmen prospects was to be built our team.

Practice was held twice a day until the time of the first game. Although prospects for a fair season were indicated, no one knew just what lay ahead for the Aggies this season.

The Aggies were working under a new system, the split-T, for the first time and it was clear to see at times that a hard, rough road lay ahead for the Green and Gold.

Opening Game

In our opening game on October 1st against the Indians of Montclair State Teachers of New Jersey, there were a number of freshmen in the starting lineup. After a hard fought 60 minutes, the Aggies had their first 1949 win: 12-7.

The next game against the New York Aggies was somewhat of a breather, but the game proved to be a costly one for the Bezdekmen. One of their outstanding line prospects, John Giusti, formerly of Wilkes College, sustained a severe knee injury that sidelined him for the next four weeks.

From here on out fate seemed to take in the Aggie fortunes, for the next five Saturdays saw the Green and Gold go down to defeat at the hands of New Haven, Kings, Potomac State, Glassboro and Wilkes.

In the New Haven game "Bucky" Zataczkowski, freshman backfield ace, suffered a severe knee injury that put him out of action until the last game. With the New Haven defeat the Aggies seemed to have lost all fight and seemed to slow down tremendously. A team with hard luck at its heels just can't seem to move. The Aggies tried hard but they were upset 19-13 by an underdog Kings College team on a wet field.

After the Kings game the Aggies took to the road, visiting Potomac State College of West Virginia where Lady Luck again took a hand. Joe Fulcoly, stellar back for the past three years, broke his collar bone and this injury terminated the college career of one of the finest

INDIVIDUAL SCORING

	T.D.	E.Pts.	Totals
Scheier	4	1	25
Fulcoly	3	0	18
Brophy	2	0	12
Kerkhoff	2	0	12
Rodrique	2	0	12
Clark	1	0	6
Riggins	1	0	6
Holzheimer	0	2	2
Checkle	0	1	1
Guisti	0	1	1
Zajaczkowski	0	1	1
			—
			96

SEASON RECORD

Visitors	Aggies
Montclair State Teachers College	7 12
New York Agricultural College	7 32
New Haven State Teachers College	12 0
Kings College	19 13
Potomac State College	19 13
Glassboro State Teachers College	20 6
Wilkes College	53 7
Lycoming College	7 13
	— —
	144 96

backs ever to wear the Green and Gold.

It was in the second half of the Potomac State game that the Aggies seemed to regain some of the form they showed at the beginning of the season, but again they went down to defeat in the second half 19-13 after a vicious hard-fought game.

Even after one of the best pep rallies held at NAC the night before the Glassboro game, the Aggies went down to defeat to the tune of 20-6, and it was a saddened team that returned to the Aggie campus that night. It was a wet, dismal Saturday that found the Aggies travelling to Wilkes College but no one knew just what was in store for the

(Continued on next page)



LOOK TO FUTURE

(Continued from page 11)

fighting Green and Gold. The Aggies were humbled by the worst defeat in NAC history to the tune of 53-7. The score, however, was unimportant, for during the course of the game big Mike Scheier received an injury to his leg that brought an end to the career of one of the greatest backs ever to play for NAC. Mike holds more records than any other NAC man in recent years.

Last Game of Season

Saturday, November 19, saw the Green and Gold return for their homecoming game against Lycoming College. For many seniors this was to be the last game of their career in a green and gold uniform. Whether it was the large crowd, the new band or the talks of the football coaches in the last game for eight men, the Lycoming game served to give notice that the fortunes of NAC were again returning. That day the Green and Gold fought their hearts out, and in the end triumphed after a bitterly fought game, 13-7.

The people in the stands, the seniors playing their last game and the coaches of NAC must have felt in their hearts that it was time to put the towels away

and take up the cry of "look to the future."

The victory road back will be started again with the first game next year that the Aggies will play against Montclair. Although "Big Mike," Joe Fulcolly, Walt Riggins, Charles Raskin, Lou Serridge, Dick Clark, Capt. Phil Molter and Walt Weinstein will be gone, the list of juniors, sophomores and freshmen returning next year will again bring back the football glory of NAC. So to all you loyal Aggie rooters "look to the future."

—△—

WHO'S WHO

(Continued from page 6)

Nine years ago Mr. Rellis married and now is the father of a four-year old boy. Steve and his father are a familiar sight on the N. A. C. campus, many of the students knowing "little Stevie" well.

Although Mr. Rellis graduated nearly twenty years ago he still is very active in alumni affairs. At the present time he is President of the local Aggie Chapter and Alumni Editor of the Gleanings. Aside from this, he has served on numerous alumni committees.

Mr. Rellis is well liked and has become a great favorite, not only of his own ornamental horticulture majors, but of the entire student body.

All-Opponent Team Picked

The members of the N A C football squad, in a poll conducted by the GLEANER, have picked their all-opponent team, naming four Wilkes College players and three from Potomac State College.

The Aggies voted Wilkes College as the best team they met this year and named Jack Feeny and John Florkiewicz, right end and fullback respectively, as their unanimous selections on the all-opponent eleven. Incidentally, both these players were named on the Pennsylvania ALL-STATE squad.

Here is how the poll results look:

ENDS—Feeny, Wilkes College; Wilson, Glassboro S. T. C.

TACKLES—Campbell, Potomac S. C., Breese, Kings College

GUARDS—Lewis, Wilkes College; Mulligan, Potomac S. C.

CENTER—Ladygo, Potomac S. C.

BACKS—Griffin, New Haven S. T. C.; Pinkowski, Wilkes College; Toplitsky, New Haven S. T. C., Florkiewicz, Wilkes College

cially in the early hours of the morning. Only recently, Doylestown raised the price of coffee in anticipation of final exam week at NAC.

Is this chaos necessary? We don't intend that final exams should be done away with, but we would like to suggest a different method of giving them. Under the new system there would be no finals given while a student is still in school. Since the primary aim of NAC is to teach us to be good farmers, we would be graded twenty years after we graduated, on how well we have applied what we learned. The grades would be something like this:

Successful farmer with prosperous farm—A (excellent).

Successful farmer with prosperous farm and 10 children — A+ (extra credit for extra curricular activities).

County Agent—B (good).

Professor in agricultural college—C (average).

Farmer who went broke—Re-exam necessary.

President of the U. S.—D (with high citizenship).

Secretary of Agriculture—B+ (very good).

Farmer who keeps bees and sheep—C (lazy student).

CHAOS AT NAC

By JOHN H. TOOR '52

When I was asked by the editor to devote this article to the subject most appropriate for this time of the year, namely final exams, I assured him that there was nothing I would like less. Although I didn't have the misfortune to be among those who experienced D-Day in Europe, I am sure the mental strain couldn't have been greater than that which the typical NAC student undergoes as final exam week approaches.

Fellows walk around in a daze muttering such things as, "I wonder who borrowed my Poultry notes back in October," or "I wonder who takes good chemistry notes that I could borrow." My own easy-going, happy-go-lucky roommate is suddenly transformed into a serious, nervous, long suffering bookworm. A complete study is made of what type of exam to expect from each professor. For example, we could have on good authority that professor so-

and-so gives an easy final, that we should just look over our notes. Then, on that ill fated day, we discover that we are asked to quote sentence 2, paragraph 5, page 478, from our Geology text. It is then we make resolutions to start cramming a month ahead of time next semester.

The average student loses five to ten pounds during final week. High spirited fellows become morose; those normally calm and cool become fidgety and quick tempered. The tension in the air is tremendous—even "Snuffy" notices it as he takes a wide berth at Segal Hall.

The economics of the surrounding community is affected by the state of affairs at NAC. The light bill for Ulman Hall goes up 300%. The "Grotto" and the Rainbow Lounge have a noticeable decline in business. Even the Hustle Inn suffers, to say nothing of the County Theater. However, Ed's Diner has a sharp increase in business, espe-

CHAOS AT NAC

(Continued from page 12)

Owner of Brooklyn Bridge — F (flunk).

I realize that there are many drawbacks to this system of grading, and I suppose that until we are able to iron out the rough spots we'll just have to go on suffering for a week at the end of each semester. However, if anyone, anywhere, can come up with a substitute for final exams, we are sure it will be deeply appreciated by the students of NAC.

—△—

Hort Seniors Attended

(Continued from page 7)

more fertilizer was used, the higher were the yields. Professor Carncross also stated that the acreage devoted to tomato production for the 1949 season had been drastically cut by farmers. He recommended that farmers should continue to raise tomatoes. A comparison of total costs and net receipts showed it to be a profitable cash crop.

In the afternoon session on tomatoes, Dr. J. B. Hester and Dr. S. G. Younkin, both from the Campbell Soup Company, presented interesting talks on soil conditions and the use of the colorimeter in color determination of tomato hybrids and tomato grades.

Again this year, as in the past, the visitors to this convention went away with many new ideas and worthwhile developments which they will put into practice.

—△—

Musical Organizations

(Continued from page 4)

Included in the Glee Club's schedule for the present season is an engagement in February to be given at a combined meeting of the four service clubs of Doylestown. On Friday, March 24, 1950 the Glee Club with the aid of a mixed chorus from Doylestown, will present a concert of choral music. A guest artist, to be announced at a future date, will also perform. This spring concert, the first of its kind, will be held in the Doylestown High School Auditorium.

The NAC Band is also planning numerous engagements for the next few months to continue the college's musical pursuits.

PEARLMAN'S RCA Television COMPLETE STOCK RECORDS MUSICAL INSTRUMENTS AND ACCESSORIES

34 S. Main St. Doylestown, Pa.

NYCE'S SUPPLY YARDS

New Britain, Pa.

Phone: Doylestown 4480

Feed — Grain

COAL

FUEL

OIL

DOYLESTOWN LAUNDRY

Doylestown, Pa.

THE Amburgo COMPANY

INC.

The Bankers Security Bldg.
Juniper and Walnut Streets
PHILADELPHIA 7, PA.

**Animal Feed
Improvement Service**
Vitamin and Mineral Concentrates
For the Milling Industry

**BIOLOGICALS INCLUDING
LIVE VIRUS
NEW CASTLE DISEASE VACCINE**

HELKER'S

ESSO SERVICE

and

SNACK BAR

FOUNTAIN SERVICE

Hoagies
Hamburgers
Hot Dogs

ROUTE 202

One Quarter Mile West
of College Entrance

"The Best

at

Its Best"

ED'S DINER

Franklin and State Streets
DOYLESTOWN

COUNTY THEATRE

Doylestown, Pa.

Bucks County's
Most Beautiful Theatre

MATINEES

Sunday at 2:15; Saturday at 1:30

EVENINGS

Shows at 7 & 9, including Sunday

SAT. EVENING

Three Shows at 6, 8 & 10 p.m.

Joseph A. Wodock, Proprietor

DAIRY SOCIETY VISITS BELTSVILLE

(Continued from page 8)

Roughage Experiments

Experiments concerned with harvesting of roughages show that less TDN is lost when grass is properly ensiled than when it is barn or field cured. On the other hand, it was found that barn cured hay contains more TDN than field cured hay. Two systems of barn curing were used. It was found that when heated air was used there was less spoilage than when fresh air was used.

Type and Production Correlation

A study of correlation factors between type and production is now in the process of analysis. One thousand dairy animals with known producing ability have been slaughtered and measured. In accordance with the same experiment, a world's record dairy cow and a famous beef cow were examined and compared. There was surprisingly little internal anatomical or skeletal variation as compared with their outward appearance.

W. W. Swett of the center has developed a fairly accurate means of determining the future productive ability of dairy calves. By studying the development of the mammary glands of calves at four months of age he can predict their production fairly accurately. A more complete discussion of the subject may be found in the 1943-1947 Agricultural Yearbook on pages 195-200.

Tour of Dairy Dept.

After touching on a number of other interesting subjects we were conducted on a tour of the Dairy Department. Starting at the bull barn, where we saw the Jersey, Holstein, Red Dane and Sindi sires used at the station, we moved on to the test barns. A number of the cows had completed records of 1000 pounds of butterfat or more, and many were close to that mark. All test cows are housed in individual pens and are milked in a parlor. Another barn adjoining is reserved for nutritional experiments and contains several nutrition stalls where all the feces and urine are trapped. The calf pens contain large numbers of growthy purebred and crossbred calves. Individual calf pens for the younger animals are equipped with raised mesh metal platforms which

kept the calf bedding drier and cleaner.

Above the maternity barn we examined the hay drying system and its marvelous product, grass green alfalfa hay.

The department also maintains a cheese making plant which is merely a pilot plant for the larger one located in Washington, D. C.

After seeing the regular milking string not on official test, we drove over to another group of buildings where the crossbreeding herd was being maintained. Naturally, we found that it lacked the uniformity of a purebred herd but the records looked good. This program shows much promise.

Several Sindi X Jersey heifers stood in the milking line, but only one had freshened as yet. The remarkable features of this cross was their excellent dairy temperament and quality of hide. They were a good deal smoother in appearance than our native dairy breeds.

About this time we became acutely aware of our empty stomachs and after holding a general discussion on pen barns, calfhood vaccination, crossbreeding, and other phases of practical dairying we adjourned to lunch.

Visit to Swine Dept.

The station's cafeteria serves about 3000 lunches daily to the employees and visitors. After satisfying our hunger we embarked again, this time to the swine department where Dr. H. O. Hetzer was our host for an hour and a half. The principal experiment now in progress there is a breeding problem, the object of which is to develop a strain of hogs more ideally suited to meat production than lard production. Dr. Hetzer pointed out the great price variation between lard and the five principal cuts of pork.

In order to speed up the experiment, it was necessary to import a number of Danish Landrace hogs which are noted for their outstanding production of these five preferred cuts: ham, loin, bacon, picnic and shoulder butt. Special attention is also given to the effects of different systems of breeding on such characters as prolificacy, mothering

ability, vigor, growth rate and efficiency of feed utilization.

It was learned that the new strains average approximately 9.5-10 pigs farrowed and higher than the average of our pigs for weaning. A vast system of colony houses on individual pastures covers a large area of the surrounding land. There is also a record of performance house equipped with heat and all modern equipment. It was here that we noted a fly spray system which is unique. This spray system looked similar to fire prevention equipment. Several copper tubing lines were strung down the length of the barns and attached to a small compression tank. With the use of one switch the entire barn could be sprayed in a few moments.

Poultry Dept. Next

We now headed for the Poultry Department in the company of Mr. Logan, supervisor of all research at the station. Before he introduced us to the poultry specialists, he answered a number of questions. It may interest the students at NAC to note that college students are hired to work at the station during the summer months without having to take a Civil Service examination. He also went into much detail to describe the procedure one must go through in order to obtain funds for an experiment.

Mr. Lee, the poultry specialist, familiarized us with the poultry setup and stated that the farm itself covered an area of 177 acres and housed 6000 laying hens and about 1500 turkeys. We touched on subjects such as egg storage, improvement of egg quality through breeding, and crossbreeding experiments to develop more efficient egg and meat birds. Unfortunately, our stay in this department was very brief and we left feeling that we had only scratched the surface. Those well versed in the field of poultry science might be interested in the physiology work being done, artificial insemination, packaging, and breeding.

Undoubtedly we left the research center much wiser than we were before we entered and with the feeling that we would like to return again.

**TWENTIETH CENTURY
FUND REPORT**

Farm plant in the United States was valued at \$42 billion in 1940, according to a Twentieth Century Fund report. Of this, 80 per cent by value was in land and buildings, 12 per cent in livestock and poultry and the remainder in equipment and in crops held for sale.



The most important item in agricultural mechanization is the tractor, says a Twentieth Century Fund survey. Early in 1943, there were nearly two million tractors on farms, compared with less than a million in 1930, about a quarter of a million in 1920 and practically none in 1910.



About 23 percent of the American people lived on farms in 1940. By 1960, says a Twentieth Century Fund survey, farm population will shrink to about 18 per cent.



A Twentieth Century Fund study says that dairy cattle have been expanding their numbers at a firmly established longterm rate—about two million per decade. This rate may be exceeded in the near future.



On the average, urban families probably receive cash incomes about twice as high as those of families in villages and farms, according to a Twentieth Century Fund report.



According to a Twentieth Century Fund report, both men and women engaged in very active physical work require much more of the energy-producing foods — potatoes, flour and cereals; dry beans, peas and nuts; meat, poultry and fish; fats and oils; and sugars and sirups than those engaged in sedentary or moderately active occupations. Sedentary workers, on the other hand require larger quantities of the leafy, green and yellow vegetables, and the same quantities of such "protective foods" as milk, eggs and tomatoes and citrus fruits as do the more active workers.

JOS. H. KERSHNER

Pharmacist
DOYLESTOWN, PA.

HISTAND BROS.

Roofing Contractors
DOYLESTOWN 4121

Smith's Ice Cream

DOYLESTOWN, PA.

" Sold in our
Athletic Association Store"

SHOP AT

SEARS'

AND SAVE

DOYLESTOWN

TRUST

CO.

PLYMOUTH

DeSOTO

Dublin Motors

Sales — Service

Used Car Lot Located at Cross Keys
Phone: Doylestown 5615

Sales Office: Route N. 313, Dublin, Pa.
Phone: Dublin 4511

**BUCKS COUNTY
INN**

Doylestown, Pa.

Phone 5111 or 5561

EDWARD M. HAPP

General Contractor
BUILDING CONSTRUCTION
Doylestown, Pa.

COMPLIMENTS OF

Girard Knitting Mills

Manufacturers of

**Men's and Boys'
Sweaters
and
Bathing Suits**

Philadelphia, Pa.

MEN! Dress Up at **BOYS!**

STAN BOWERS

Clothier and Furnisher
19 N. Main St. Doylestown, Pa.
Phone 4698

Reach for

STROEHMANN'S

"BREAD AT ITS BEST"

THE BARBER SHOP

State and Pine Streets

Doylestown

Operated by

Ethel Abbott Edith Claycomb

Schwartz Bros., Inc.

"Established Over 42 Years"

**FIRE PROTECTION
EQUIPMENT**

FROM HAND GRENADE
TO A FIRE ENGINE

827 Arch Street

Philadelphia 7, Pennsylvania

HUSTLE INN

Our Motto: "Always a Good Time"

OPEN EVENINGS

Located on State Cottages Campus
Doylestown, Pa.

— Alumni News —

In the December issue of the GLEANER we mentioned that Mr. Hiram S. Rivitz, an early student here, was a guest at one of the board meetings. Through the courtesy of the alumni *Gleanings* we present the biography of Mr. Rivitz. ". . . But the story of a youth who attended the National Farm School, retired from his first business venture at the age of 39, and then re-entered an entirely new field of business to build a small company to a position of world-wide importance isn't the kind of story that happens every month, or every year. It's the story of HIRAM S. RIVITZ.

"Success didn't come easy — but it wasn't long coming either. With \$2000 that he had been able to save during a short career as a salesman—plus the kind of drive that couldn't be stopped—he started a plumbing and heating supply business in Cleveland. Thirteen years later, the firm had branches in Canton and Youngstown and was doing an annual business of five million dollars.

"At the age of 39, Mr. Rivitz was ready to retire. He sold his business and resolved to take things easy. But the "easy life" wasn't for him and a short time later he became engaged in a second venture that was ultimately to stamp him as one of the outstanding industrialists in the country.

"He was persuaded by friends to assume the managerial position of a small and failing rayon company in Cleveland. A year later, in 1927, he became its president. Almost instantly, the red ink stopped flowing into the company books and entries began to show on the profit side of the ledger.

"With the same drive that characterized his first success in earlier years,

Hiram transformed the 'sick' plant of Industrial Rayon into a healthy and robust enterprise, later added a second and then a third plant. Today, Industrial Rayon Corp., employing about five thousand persons, is one of the country's largest producers of rayon. Its products are the envy of rayon producers in all parts of the world. Its leadership and stability stand as a monument to a man who always made his own way, to a man we are indeed proud to number among our alumni. . . .

"At the start of this year, Hiram Rivitz resigned from the presidency to accept the post of Chairman of the Board of Directors of the company, a position from which he will continue his active interest in the affairs of the company.

"Despite his many responsibilities as a corporation leader, he still finds time to devote considerable effort to the support of the Boy Scout organization, and also for his alma mater, formerly the National Farm School and now the National Agricultural College."

★ ★ ★ ★

Six NAC students were present at the November meeting of the Philadelphia chapter of the alumni association.

Among those present were Jim Sheaffer, president of the senior class and Gordon Davis, president of the student council. The students were questioned on various phases of the college and its transitions. According to the consensus of opinion, they answered them "scientifically."

Officers were elected at the meeting with the following results: President, Solis Galob, '26; 1st Vice President, Phil Spivak, '31; 2nd Vice President, Sam Angert, '34; Secretary-Treasurer, Nate Moser, '32.

Suggestion Department

How about a basketball game between an alumni team and the NAC varsity team? It could serve many good purposes. The students would get to know the alumni better and it could be used as a means of raising a few dollars toward Alumni Hall. The GLEANER suggested this idea last year, but nothing came of it. How about this year? We see quite a few good alumni players right here at the college: such men as Professors Plevan, Segal and Elson. And you also have Mr. Samuels as a possible coach.

We hope to see a game of this sort in the near future. Don't let us down.

★ ★ ★ ★

ALUMNI—Keep those bits of news rolling into our GLEANER office. We hear regularly from the Philadelphia and Boston Chapters. What's happened to the other Chapters?

—△—

HIGHLIGHTS

(Continued from page 10)

Work in the concluding speech said football is a game of bodily contact; that you had to be tough if you wanted to win football games. The rally ended with the singing of the Alma Mater.

In True Aggie style, the team came through the next day as they downed Lycoming 13-7 to end the '49 grid season.

—△—

Pollen Trap for Bees

A pollen trap and distributor has been made by J. C. Kremer, Michigan State College research horticulturist. With the trap he was able to gather a pint of pollen from the feet of the bees as they returned to the hive. This pollen was then taken more than one hundred miles away and placed in another hive equipped with a distributor. Bees leaving this hive to visit apple trees carried the pollen with them.

In Bucks County, It's

DAVIS FEED MILL

Custom Grinding and Mixing

LIME — FERTILIZER — SEEDS — FEEDS

RUSHLAND, PENNSYLVANIA

Phone
Wycombe
3191

Phone
Wycombe
3191

New Sawdust Use

Successful fattening of poultry, hogs and cattle on chemically treated sawdust was reported at a recent meeting of the American Chemical Society in Portland, Oregon.



ENTERPRISE Mill Soap Works

Columbia Alkali
Products

Industrial Soaps—Chemicals
Laundry—Dry Cleaning Supplies

2229-31-33 N. Twelfth St.
PHILADELPHIA, PA.

Compliments of

BARRETT HARDWARE CO.

JAMES BARRETT

Doylestown, Pennsylvania

PAUL B. MOYER

Auto Electric Parts
and Service

23 AND 25 E. OAKLAND AVE.
Phone 4621 Doylestown, Pa.

WEST DISINFECTING CO.

Products for the Promotion
of Sanitation

49th and Groys Ave., Phila. 43, Pa.
SA 7-0500

W. J. NYCE'S SHOE STORE

"The Home of Nice Footwear"

X-ray Fittings

West and State Streets
Doylestown, Pa.

MArket 6396 — 6397 — 6398

CHARLES STRICKLER & SONS

FOUNDED 1875

Importers and Wholesale Distributors

QUALITY FOOD PRODUCTS

204-212 Callowhill Street, Philadelphia

REAL ESTATE BROKER

NOTARY PUBLIC

FARM BUREAU

Mutual Automobile Insurance Co.

Mutual Fire Insurance Co.

Life Insurance Co.

WILLIAM H. BOOZ

NICK YUNGER
Real Estate

PLUMSTEADVILLE, PA.
Phone: 2581

DODGE

PLYMOUTH

W. H. WATSON & SON

135 S. MAIN STREET

All Makes Repaired

Phone 4355

Dodge Job Rated Trucks

Nash Airflyte for '49

JEPSEN MOTOR COMPANY

225 West State Street

Doylestown, Pa.

Phone 4197



DRAWING

MATERIALS

PHOTOSTATS

BLUE PRINTS

Engineering Equipment

Surveying Instruments



J. H. Weil & Co.

1315 Cherry St. Phila., Pa.

For everything pertaining to

Real Estate and Insurance

see

J. Carroll Molloy

REALTOR

DOYLESTOWN 258

PLEASE
PATRONIZE
OUR
ADVERTISERS

RUDY'S DELICATESSEN

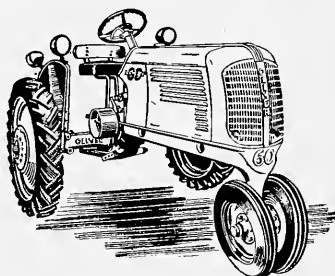
CROSS KEYS

★ Hoogies and Cold Cuts ★
To Take Out

Swamp Road and Old 611

Phone: Doy. 9227

Full Line of
Farming Implements
G.M.C. Trucks
Sales and Service
Welding and Repairing



PAUL W. HISTAND
Doylestown, Pa.
Phone 4687 and 5507

WISSAHICKON DAIRIES

3527 "A" Street

PHILADELPHIA, PA.

Attention Students AND FARM HELP

Clip this ad out and present it to Mr. Brown for a SPECIAL N.A.C. **Discount** on all used **Cars** at

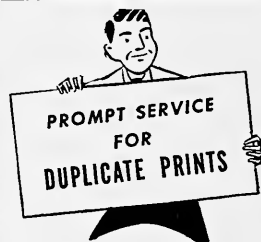
J. J. Conroy INC.

W. State St. Doylestown, Po.
Phone 274

DOYLESTOWN INN

Home of Quality Food

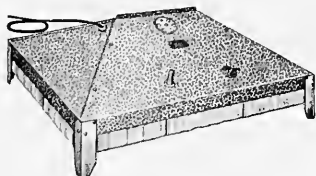
STATE NEAR MAIN STREET
Doylestown, Pa.



Bring Your Next Roll of
Film to Us for Quality
DEVELOPING
and PRINTING

We do our own Photo Finishing

MILTON RUTHERFORD
23 W. STATE STREET
DOYLESTOWN, PA.

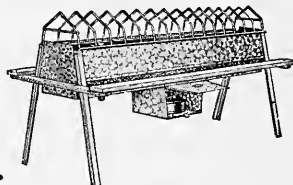


Coal, Oil, Gas and Electric
BROODERS

This modern dependable
Poultry Equipment can be
purchased at your
local dealer

Kuhl Poultry Equipment Co.

PHONE 905-R-5
Flemington, New Jersey



Electric Heated
WATERERS

"MEININGERS"

**Sporting Goods
Exclusively**

34 W. State Street
DOYLESTOWN, PA.

Phone: Doylestown 5624

RALPH E. MYERS

Creamery and Dairy
EQUIPMENT and SUPPLIES

Doylestown, Pa.

Plumbing
Sunheat Furnace Oil
Heating

M. A. Rufe Estate

DOYLESTOWN, PA.

General Electric
Oil Equipment

Hot Point Electric Ranges
Deep Freeze Refrigeration

Farm Equipment Headquarters

McCORMICK-DEERING Form Mochines
INTERNATIONAL Motor Trucks CADILLAC and OLDSMOBILE Cors
Barn and Dairy Equipment, Farm Freezers, Sprayers, Silos, Power Lawn Mowers

DOYLESTOWN AGRICULTURAL CO.

PHONE 231

Established 1851

DOYLESTOWN, PA.

BOOKS and STATIONERY

Greeting Cards for All Occasions
Parker and Sheaffer Fountain Pens

●

J. A. GARDY PRINTING CO.

28 W. State St.

Doylestown, Pa.

SURVEYS

SERVICE

ERECTIONS

ANDREW J. NICHOLAS & CO.

Deep Well Pumping
Equipment

"OVER 40 YEARS EXPERIENCE"

2908-10 W. Fletcher Street

A. J. NICHOLAS

PHILADELPHIA 32, PA.

Buten's Paint Stores

Philadelphia
Reading Chester
Upper Darby Camden

IF WE SAY IT'S
GOOD —
IT IS GOOD

PEARSON SPORTING GOODS

of Every Description

Eighth and Locust Streets
PHILADELPHIA, PA.

Shive Hardware Co.

Paints, Glass,
House Furnishings, Goods
and Seeds

Main and State Streets
Doylestown, Pa. Phone 4053

High - Standard

CHEMICALS

Soaps—Detergents—Dishwash
Compounds
Dairy and Food Plant Sanitation
Insecticides

Order in drums and barrels

BRAM CHEMICAL CO.

Manufacturing Chemists
2107 W. Erie Ave. Phila. 40, Pa.

*Fountain House
Hotel*

1748-1949

Doylestown, Pa.

